

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool South Blanco Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 6-23-57
Operator Northwest Production Corp. Lease "8" Well No. 11-11
Unit A Sec. 11 Twp. 24N Rge. 4W Pay Zone: From 3014 To 3030
Casing: OD 7 WT. 20 Set At 3233 Tubing: OD 2-3/8 WT. 4.7 T. Perf.
Produced Through: Casing X Tubing Gas Gravity: Measured .698 Estimated
Date of Flow Test: From 5-24-57 To 6-1-57 * Date S.I.P. Measured 10-8-56
Meter Run Size 2" Orifice Size Type Chart Type Taps

OBSERVED DATA

Flowing casing pressure (Dwt) psig + 12 = psia (a)
Flowing tubing pressure (Dwt) psig + 12 = psia (b)
Flowing meter pressure (Dwt) psig + 12 = psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading psig + 12 = psia (d)
Square root chart reading () ² x spring constant = psia (d)
Meter error (c) - (d) or (d) - (c) ± = psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 393 psig + 12 = 607 psia (g)
Square root chart average reading () ² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 607 psia (i)
Wellhead casing shut-in pressure (Dwt) 998 psig + 12 = 1010 psia (j)
Wellhead tubing shut-in pressure (Dwt) 998 psig + 12 = 1010 psia (k)
P_c = (j) or (k) whichever well flowed through = 1010 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 303 psia (n)

Q = 169 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \text{MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 169 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{763.075}{651.651} \right]^n \frac{1.1440}{1} = \text{194 MCF/da.}$

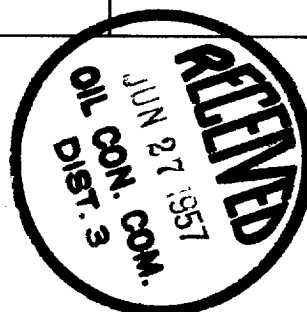
SUMMARY

P_c = 1010 psia
Q = 169 Mcf/day
P_w = 607 psia
P_d = 303 psia
D = 194 Mcf/day
Company Northwest Production Corp.
By Ray Phillips, RAY PHILLIPS
Title Asst Mgr, Prod Operations
Witnessed by
Company

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w



OK